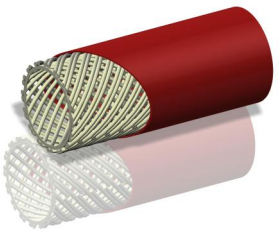
Uncoated Fiberglass Sleeve



NU-SLEEVE HV-565

NU-SLEEVE HV-565 is a heavy wall coated fiberglass sleeving made by applying a heavy coating of liquid silicone rubber to a fully annealed fiberglass substrate. The HV-565 sleeving is extremely resistant to abrasion, offers better coating adhesion to the fiberglass compared to extruded type sleevings and has a high heat/flex capacity.

It is highly resistant to end fray and coating fracture, even when stretched over rectangular conductors or wires larger than the normal maximum inside diameter, making it an ideal choice for high stress applications over a wide temperature range up to +200°C.

NU-SLEEVE HV-565 is highly resistant to inorganic acids and alkalis. Chlorinated organic solvents and aromatic hydrocarbons will cause some swelling and subsequent reduction in Tensile strength. Testing with ASTM #1 Oil, a slight swelling was produced, while IRM #903 Oil will produce up to 49% volume increase.

NU-SLEEVE HV-565 is used extensively for terminal and leads insulation and protection, as well as in high current dry transformers. It can also be stacked to obtain extremely high dielectric voltage ratings.

RoHS COMPLIANT

DELFINGEN

Nu-Sleeve HV-565

Characteristics & Properties

- **Colors:** red iron oxide only.
- **Specifications:** MIL-I-3190/6; UL 1441 VW-1; NEMA TF-1 Type 5; ASTM. It is UL and CSA recognized: UL E93101 and CSA LR67735.
- **Insulation class:** R class rated at 200°C (392°F).

Physical properties	Value
Operating temperature range (NEMA class H)	-70°C / 200°C (-94°F / 392°F)
Dieletric strength	dry: 15,000 volts, 60 Hz AC @ 500 V/s rate of rise wet: >80% of the dry values
Dielectric constant	2.86 (10,000 Hz) 2.87 (100 Hz)
Volume resistivity	6.1 Ohm.cmx10^{14}
Dissipation factor	.0011 (10,00 Hz) .0016 (100 Hz)
Tensile strength	8.3 MPa
Hardness	37 Shore A
Elongation at break	420 %
Fungus resistance	Inert - none at 40x
Rate of burning	self-extinguishing with removal of heat source
Radiation resistance	no effect - 10 Mrads
Heat aging	no effect - 275°C (527°F) for 136hr
Flammability	self-extinguishing
Abrasion resistance	> 2,000 cycles
Fluid resistance	no effect to: brake fluid, transmission fluid, antifreeze, washer solution, fuels, power steering fluid, diesel, battery electrolyte, oils...

Dimensions

Designation	NEMA sizes	Nominal Ø		Minimum Ø (inches)	Maximum Ø (inches)
		(inches)	(mm)		
NU-SLEEVE HV-565 AWG 9	9	0.119	3.02	0.114	0.124
NU-SLEEVE HV-565 AWG 8	8	0.135	3.43	0.129	0.141
NU-SLEEVE HV-565 AWG 7	7	0.148	3.76	0.144	0.158
NU-SLEEVE HV-565 AWG 6	6	0.166	4.22	0.162	0.178
NU-SLEEVE HV-565 AWG 5	5	0.186	4.72	0.182	0.198
NU-SLEEVE HV-565 AWG 4	4	0.208	5.28	0.204	0.224
NU-SLEEVE HV-565 AWG 3	3	0.234	5.94	0.229	0.249
NU-SLEEVE HV-565 AWG 2	2	0.263	6.68	0.258	0.278
NU-SLEEVE HV-565 AWG 1	1	0.294	7.47	0.289	0.311
NU-SLEEVE HV-565 AWG 0	0	0.330	8.38	0.325	0.347
Other sizes					
NU-SLEEVE HV-565 3/8	3/8"	0.387	9.83	0.375	0.399
NU-SLEEVE HV-565 7/16	7/16"	0.450	11.43	0.438	0.462
NU-SLEEVE HV-565 1/2	1/2"	0.512	13.00	0.500	0.524
NU-SLEEVE HV-565 5/8	5/8"	0.640	16.26	0.625	0.655
NU-SLEEVE HV-565 3/4	3/4"	0.768	19.51	0.750	0.786
NU-SLEEVE HV-565 7/8	7/8"	0.893	22.68	0.875X	0.991
NU-SLEEVE HV-565 1	1"	1.018	25.86	1.000	1.036
NU-SLEEVE HV-565 1 1/8	1 1/8"	1.143	29.03	1.125	1.161
NU-SLEEVE HV-565 1 1/4	1 1/4"	1.260	31.75	1.250	1.286

Packaging

NU-SLEEVE HV-565 is delivered in standard spools, bulk spools or in cut lengths upon request.

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